

Abstract

The differential pressure sensor of the invention includes a measuring mechanism 1 having a chamber 5 on the high-pressure side that is sealed by a first dividing membrane 2, and a chamber 6 on the low-pressure side that is sealed by a second dividing membrane 3, wherein the first dividing membrane 2 is loadable with a pressure acting on the high-pressure side and the second dividing membrane 3 with a pressure acting on the low-pressure side, and the chamber 5 on the high-pressure side is separated from the chamber 6 on the low-pressure side by a pressure-sensitive element 4, especially a measuring membrane, and the chambers of the high- and low-pressure sides are filled with a transfer medium. For damping of overload pulses acting on the first dividing membrane 2 on the high-pressure side, a hydraulic throttle 7 is provided, which is arranged on the low-pressure side between the second dividing membrane and the pressure-sensitive element.

(Fig. 1)